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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 09/595,498 | 06/16/2000 | Jadie Soo Sun | Sony- 50P3801 | 9931 |

7590 04/27/2004
Wagner Murabito & Hao LLP
Two North Market Street
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EXAMINER

NOBAHAR, ABDULHAKIM

| ART UNIT | PAPER NUMBER |
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2132

DATE MAILED: 04/27/2004

3

Please find below and/or attached an Office communication concerning this application or proceeding.

SK

Office Action Summary

Application No.

09/595,498

Applicant(s)

SUN, JADIE SOO

Examiner

Abdulkhakim Nobahar

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

6Pg
1 - 2/
Claims ~~1 and 2~~ are rejected under 35 U.S.C. 102(e) as being anticipated by

Ottesen et al. (6,208,804 b1; hereinafter Ottesen).

Ottesen discloses a method for transferring source program signals representative of a multimedia program to and from a multimedia direct access storage device (col. 3, lines 25-52). The multimedia direct access storage device is preferably a component of a local set-top control unit that buffers some of the compressed program segments received from a multimedia server.

Claim 1

a) Establishing a connection between said first device and said second device.

See, for example, col. 7, lines 11-30, where the se-top control unit is corresponding to the recited first device and the server corresponds to the recited second device.

b) A communication layer of code coupled to said first device receiving at least one packet from said second device. See, for example, col. 9, lines 26-31 and col. 18, lines 1-18, where the data-link layer corresponds to the recited communication layer of code.

c) Said communication layer of code sending a response to said second device for each of said packets received in step b). Ottesen discloses that the set-top controller system conforms to the Open System International (col. 18, lines 1-18) (i.e., the set-top unit communicates back and forth with the multimedia server during a communication session) and cooperates with the multimedia server in transmission of packets (col. 16, lines 55-62 and col. 21, lines 33-55). Additionally, Ottesen discloses that the packet transmission to the set-top unit uses header error check (col. 17, lines 55-67) and the set-top unit performs packet synchronization (col. 22, lines 37-48 and col. 43, lines 34-41). These require the set-top unit to transmit a response (i.e., an acknowledgment signal) to the multimedia server upon receiving each packet.

d) Said communication layer transferring all of said packets as a single group to a processing layer of code coupled to said first device, wherein said processing code and said communication code are independent from each other. As stated above, the set-top unit conforms with the OSI model (See, for example, col. 18, lines 1-18), where the presentation and application layers correspond to the recited processing layer. According to the OSI model the packets are received individually in the data-link layer and then after some modification and arrangement (i.e., re-assembling the packets), they are sent to the application layer for a process.

Claim 2

b1) Receiving a packet. See for example, col. 21, lines 42-55

b2) Determining whether said packet is a fragmented packet and b3) if said packet is a fragmented packet, said communication layer of code storing said fragmented packet in a temporary buffer coupled to said first device. See for example, col. 22, lines 6-15.

b4) If said received packet was not the last packet to be received from said second device, repeating steps b1) - b3). See for example, col. 22, lines 27-47.

Claim 3

The method of Claim 1, wherein step b) comprises the step of: b1) receiving an un-fragmented packet of data. See for example, col. 22, lines 37-48.

Claim 4

The method of Claim 1 further comprising the step of:

e) Negotiating the maximum size of said packets transferred between said first device and said second device. See for example, col. 15, lines 10-37.

Claim 5

The method of Claim 1 wherein said packet in step b) comprises an audio/video control (AV/C) command. See for example, col. 21, lines 55-65.

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Claim 6

The method of Claim 1 wherein step c) comprising the step of: c1) said communication layer of code sending an audio/video control (AV/C) response to said second device for, each of said packets received in step b). See for example, col. 21, line 65-col. 22, line10.

Claim 7

The method of Claim 1 wherein said connection in step a) is made via an IEEE 1394 serial cable. See for example, col. 7, lines 12-30.

Claim 8

The method of Claim 1 wherein said packet comprises information regarding said second device's compliance with a copy protection scheme. See for example, col. 13, lines 15-18, where verification of a subscriber to access multimedia program according to authorization rights corresponds to the recited a copy protection scheme.

Claim 9

In a first device for transferring a digital signal, a method of exchanging data between the first device and a second device comprising the steps of:

a) Establishing a connection between said first device and said second device. See, for example, col. 7, lines 11-30, where the se-top control unit is corresponding to the recited first device and the server corresponds to the recited second device.

b) A communication layer of code coupled to said first device sending at least one packet to said second device. See, for example, col. 18, lines 1-18, where the data-link layer corresponds to the recited communication layer of code and col. 21, line 65-col. 22, line 10.

c) Said communication layer of code receiving a response from said second device for each of said packets sent in step b). Ottesen discloses that the communication between the set-top unit and the multimedia server conforms to the Open System International (col. 18, lines 1-18 and Fig. 3) (i.e., the set-top unit communicates back and forth with the multimedia server during a communication session) and cooperates with the multimedia server in transmission of packets (col. 16, lines 55-62 and col. 21, lines 33-55). Additionally, Ottesen discloses the use of header error check (HEC) for the packet transmission between the multimedia server and the set-top unit (col. 17, lines 55-67). Thus, the server sends responses for the packets that receive from the set-top unit.

d) Repeating steps b) and c) until all packets are sent. Ottesen discloses that prior to transmission of data packet to the customers a process of verification and authorization (i.e., authentication) of the subscriber is performed (See for example, col. 13, lines 10-20). This means that data packet containing subscriber's information is transmitted from the set-top unit to the multimedia server and would continue until all the required information reaches the server.

e) Said communication layer transferring a response to a processing layer of code coupled to said first device, wherein said communication layer of code and said

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processing layer of code are independent from each other. As stated above, the set-top unit conforms with the OSI model (See, for example, col. 18, lines 1-18), where the presentation and application layers correspond to the recited processing layer.

According to the OSI model the packets are received individually in the data-link layer and then after some modification and arrangement (i.e., re-assembling the packets), they are sent to the application layer for a process.

Claim 10

The method of Claim 9 wherein said first device is a sink device and said second device is a source device. See for example, col. 6, lines 18-34, where the multimedia server corresponds to the recited a source device.

Claim 11

The method of Claim 9 wherein said packet in step b) comprises an audio/video control (AV/C) command. See for example, col. 21, line 65-col. 22, line10.

Claim 12

The method of Claim 9 wherein said response in step c) comprises a response to an audio/video control (AV/C) command. See for example, col. 21, lines 55-65.

Claim 13

A host device for processing digital audio/video signals comprising:

- a) A processor coupled to a bus. See for example, col. 12, lines 33-41 and col. 42, lines 52-60, where the set-top unit is the host device.
- b) A memory coupled to said bus. See for example, col. 20, lines 2-12.
- c) A communication layer of code stored in said memory and, when run in said processor, operable to receive packets from a peripheral device connected to said bus via a communication link. See for example, col. 20, lines 2-37.
- d) Said communication layer of code further operable to send a response to said peripheral device for each packet received from said peripheral device. See for example, col. 21, lines 55-65.
- e) Said communication layer of code further operable to send all received packets as a single group to a processing layer of code stored in said memory. See for example, col. 21, lines 33-55.

Claim 14

The device for processing digital audio/video signals of Claim 13 wherein: said host device further comprises a temporary buffer stored in said memory. See for example, col. 20, lines 12-22.

Wherein said communication layer of code is further operable to determine whether said packets received in step c) are fragmented packets; and wherein said communication layer of code is further operable to store said fragmented packets in, said temporary buffer. See for example, col. 20, lines 23-37 and col. 22, lines 6-15.

Claim 15

The device for processing digital audio/video signals of Claim 13 wherein one of said packet in c) comprises an audio/video control (AV/C) command. See for example, col. 21, lines 55-65.

Claim 16

The device for processing digital audio/video signals of Claim 13 wherein said response in d) comprises a response to an audio/video control AV/C command. See for example, col. 21, line 65-col. 22, line10.

Claim 17

The device for processing digital audio/video signals of Claim 13 wherein said host device is a sink device. See for example, col. 20, lines 2-12, where the set-top unit corresponds to the recited a sink device.

Claim 18

The device for processing digital audio/video signals of Claim 13 wherein said host device is a source device. See for example, col. 8, lines 24-50, where the server corresponds to the recited a source device and functions as embodied in claim 13 particularly when receiving packets from the sink device to authorize the subscriber (col. 13, lines 10-20).

Claim 19

The device for processing digital audio/video signals of Claim 13 wherein said host device seeks full authentication. See for example, col. 13, lines 10-20.

Claim 20

The device for processing digital audio/video signals of Claim 13 wherein said host device seeks restricted authentication. See for example, col. 13, lines 10-20, where the authorization rights correspond to the recited restricted authentication.

Claim 21

The device for processing digital audio/video signals of Claim 13 wherein said packets comprise information, which defines that the peripheral device sending the packet is compliant with a copy protection scheme. See for example, col. 13, lines 10-20, where verification of a subscriber to access multimedia program according to authorization rights corresponds to the recited a copy protection scheme.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. 6,714,985 B1 to Malagrino et al.

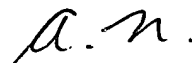
US Patent No. 6,654,811 B1 to Chaskar et al.

US Patent No. 6,577,596 B1 to Olsson et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abdulhakim Nobahar whose telephone number is 703-305-8074. The examiner can normally be reached on M-F 8-5.

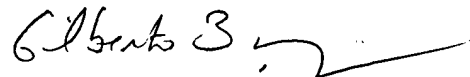
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on 703-305-1830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Abdulhakim Nobahar
Examiner
Art Unit 2132

AN
April 22, 2004



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